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APPLICATION NO. FILING DATE		FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/049,415	•	07/22/2002	Kim Rishoj Pedersen	GRP-0011	1155	
23413	7590	06/16/2005		EXAMINER		
CANTOR			GRIER, LAURA A			
55 GRIFFIN ROAD SOUTH BLOOMFIELD, CT 06002				ART UNIT	PAPER NUMBER	
	,			2644		
			DATE MAILED: 06/16/2005			

Please find below and/or attached an Office communication concerning this application or proceeding.

·		Applicat	Application No. Applicant(s)							
Office Action Summary			15	PEDERSEN ET AL.						
			r	Art Unit						
		Laura A.		2644	L					
Period fo	The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply									
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).										
Status										
1)	Responsive to communication(s) filed on									
2a) <u></u> ☐	This action is FINAL . 2b)⊠ This action is ı	non-final.							
3)□	Since this application is in condition fo	r allowance excep	t for formal matters, pro	secution as to the	merits is					
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.									
Dispositi	ion of Claims	•								
4)🖂	Claim(s) 1-14 is/are pending in the app	plication.								
	4a) Of the above claim(s) is/are withdrawn from consideration.									
5)	Claim(s) is/are allowed.									
	Claim(s) <u>1-14</u> is/are rejected.									
· —	Claim(s) is/are objected to.									
8)	Claim(s) are subject to restriction	on and/or election i	requirement.							
Applicati	ion Papers									
9)	The specification is objected to by the l	Examiner.								
10)⊠ The drawing(s) filed on <u>22 July 2002</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.										
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).										
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).										
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.										
Priority u	ınder 35 U.S.C. § 119									
12)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a)⊠ All b)□ Some * c)□ None of:										
1. Certified copies of the priority documents have been received.										
2. Certified copies of the priority documents have been received in Application No										
3. Copies of the certified copies of the priority documents have been received in this National Stage										
application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.										
3	ree the attached detailed Office action i	for a list of the cert	ined copies not receive	α.						
Attachmen	t(s)									
1) Notic	e of References Cited (PTO-892)		4) Interview Summary							
2) Notic	e of Draftsperson's Patent Drawing Review (PTC nation Disclosure Statement(s) (PTO-1449 or PT)-948) (O/SR/08)	Paper No(s)/Mail Da 5) Notice of Informal Pa		∖.152)					
	r No(s)/Mail Date <u>2/8/02</u> .	0/30/00)	6) Other:		. 102)					

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DETAILED ACTION

Claim Rejections - 35 USC § 112

- 1. The following is a quotation of the second paragraph of 35 U.S.C. 112:
 - The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 2. Claim 2-5 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.
- 3. Regarding claim 2-3, the concepts of the claimed invention relates to a directional rendering unit for receiving and input having N directional components. For purpose of examination is unclear is the "input signal" of claim 2 is the same as the at least one signal having N directional components in claim 1 or if the "input signal" is a different signal comprising N directional input components.
- 4. Claim 5 recites the limitation "...said P outputs..., said direction rendering unit...".

 There is insufficient antecedent basis for this limitation in the claim.

Double Patenting

5. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. See *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and, *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

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A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 CFR 1.130(b).

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

6. Claims 11-13 are provisionally rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claim 11-12 of copending Application No. 10049417. Although the conflicting claims are not identical, they are not patentably distinct from each other because is drawn to processing a plurality of input signals to created a specific processed audio signal.

Regarding claim 11-12, application no. 10049417 (herein, appn-417) discloses in claim 11, a method for decomposing an audio signal, wherein the signal comprises N directional components, which reads on a method of representing an audio-signal, therein as claimed.

Regarding claim 13, appn-417 discloses method for processing audio signals, wherein the audio signal comprises M sub-signals, reads on the audio signal comprising M sub-signals.

This is a <u>provisional</u> obviousness-type double patenting rejection because the conflicting claims have not in fact been patented.

Claim Rejections - 35 USC § 102

7. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

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8. Claims 1, 10-14 are rejected under 35 U.S.C. 102(b) as being anticipated by Kendall et al., U. S. Patent No. 4731848.

Regarding claims 1, and 10-14, Kendall et al. (herein, Kendall) discloses a spatial reverberator (col. 4, lines 4-25, col. 5, lines 13-25, col. 20, lines 50-68, and col. 21, lines 1-7). Kendall's disclosure comprises an input signal, which reads on at least one input, a reverberator, which read on at least one early pattern generator (a least one space processor, at least one reverberation units), wherein the reverberator creates N directional components are added to provide at least one signal having N directional components.

9. Claims 1-4, 6-9 is rejected under 35 U.S.C. 102(e) as being anticipated by Poletti, U.S. Patent No. 5862233.

Regarding claim 6-8, Poletti discloses a reverberation system. Poletti's disclosure comprises a plurality of microphone inputs, wherein the microphone picks up sound with a specific environment, the microphones into reverberator, which enable signals for two of the microphones to output to one speaker, which reads on a directional rendering unit establishing a P-channel output, wherein the output of loudspeaker corresponds to trans-aural representation of the input signals, therein (col. 5, lines 31-67 and col. 6, lines 21-39 and figure 2).

Regarding claim 9, Poletti discloses a reverberation system. Poletti's disclosure comprises a plurality of microphone inputs into reverberator wherein early reflections may be incorporated, the signals are added to provide a combined signal, which indicates at M input signals, and at least one output for transmitting an N-directional early pattern signal, therein (col. 5, lines 31-67 and col. 6, lines 21-39 and figure 2).

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Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Laura A. Grier whose telephone number is (571) 272-7518. The examiner can normally be reached on Monday - Friday, 7:30 am - 4:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Sinh N. Tran can be reached on (571) 272-7564. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Laura A. Grier